

Specifications

Set Model			AR09HSFSHWK/CV	AR12HSFSHWK/CV	AR18HSFSHWK/CV	AR24HSFSHWK/CV
Model	Indoor Unit Model		AR09HSFSHWKNCV	AR12HSFSHWKNCV	AR18HSFSHWKNCV	AR24HSFSHWKNCV
	Outdoor Unit Model		AR09HSFSHWKXCV	AR12HSFSHWKXCV	AR18HSFSHWKXCV	AR24HSFSHWKXCV
Performance	Nominal Capacity	Cooling (Btu/h)	9,000	12,000	18,000	22,000
		Heating (Btu/h)	12,000	13,600	20,600	27,000
	Capacity Range	Cooling (Btu/h)	3,378 - 10,918	3,378 - 13,648	5,459 - 23,884	8,871 - 31,732
		Heating (Btu/h)	3,378 - 17,742	3,378 - 20,472	4,094 - 27,296	7,506 - 40,944
	SEER		23.0	22.0	20.5	20.0
	EER / COP		15.00 / 13.64	13.64 / 12.83	13.24 / 12.64	12.22 / 10.71
	HSPF		10.5	9.5	9.0	10.0
Condensate (pints/hour)			1.42	2.49	4.40	6.00
Power	Voltage (ø/V/Hz)		1 / 208-230 / 60			
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation between each leg)			
	Rated Current (Low/Std./Max.)	Cooling (A)	1.5 / 2.9 / 3.2	1.5 / 4.1 / 5.3	1.8 / 6.2 / 9.7	3.2 / 8.3 / 14.0
		Heating (A)	1.3 / 4.1 / 6.5	1.3 / 4.9 / 8.3	1.5 / 7.3 / 10.5	2.6 / 11.5 / 19.0
	Rated Power Use(Low/Std./Max.)	Cooling (kW)	0.22 / 0.60 / 0.70	0.22 / 0.88 / 1.15	0.38 / 1.36 / 2.20	0.60 / 1.80 / 3.15
		Heating (kW)	0.19 / 0.88 / 1.40	0.19 / 1.06 / 1.80	0.30 / 1.63 / 2.10	0.48 / 2.52 / 4.20
	Max. Breaker (A)		15	15	20	30
Min. Circuit Ampacity (A)			6.5	6.5	14.0	17.0
Dimensions	Indoor Unit	Width (inches)	35 9/32	35 9/32	41 27/32	41 27/32
		Height (inches)	10 1/4	10 1/4	11 19/32	11 9/16
		Depth (inches)	10 27/32	10 27/32	12 15/32	12 15/32
		Weight (lbs.)	23	23	31	31
	Outdoor Unit (inches)	Width (inches)	31 1/8	31 1/8	34 21/32	34 21/32
		Height (inches)	21 17/32	21 17/32	31 7/32	36 21/32
		Depth (inches)	11 1/16	11 1/16	12 7/32	12 19/32
		Weight (lbs.)	78	78	117	158
	Condensate Connection			1.4"+3/8"	1.4"+3/8"	1.4"+1/2"
Sound Pressure Level, dB(A)	Indoor Unit	Silence/Turbo	20 / 40	20 / 41	25 / 41	30 / 44
	Outdoor Unit	High	45	46	51	54
Operating Temperatures (°F)	Outdoor	Cooling	14 ≤ T ≤ 115			
		Heating	5 ≤ T ≤ 75			
	Indoor	Cooling	61 ≤ T ≤ 90			
		Heating	T ≤ 80			
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"	1/4"	1/4"	1/4"
		Low side (flare)	3/8"	3/8"	1/2"	5/8"
	Maximum / Minimum Line Set Length (ft.)		50 / 10	50 / 10	98 / 10	98 / 10
	Maximum Vertical Separation (ft.)		26	26	50	50
Refrigerant	Type		R410A			
	Control Method		Electronic Expansion Valve (at outdoor unit)			
	Factory Charge (Lbs.)		2.8	2.8	4.41	5.07
	Charged for		25 ft.	25 ft.	25 ft.	25 ft.
	Additional Refrigerant		0.010 Lbs/ft. over 25 ft.	0.010 Lbs/ft. over 25 ft.	0.010 Lbs/ft. over 25 ft.	0.027 Lbs/ft. over 25 ft.
Compressor	Manufacturer		Samsung			
	Type		DC, Inverter Driven, Rotary			
	RLA (A)		4.6	4.6	8.3	13.7
	Operating Frequency (Low/Std./Max.)	Cooling (Hz)	15 / 38 / 45	15 / 53 / 67	15 / 47 / 73	15 / 41 / 69
		Heating (Hz)	15 / 55 / 82	15 / 63 / 103	15 / 54 / 72	15 / 48 / 75
Indoor Fan	Type		BLDC motor with cross-flow fan (1)			
	Air Volume (max. CFM)		459	487	602	634
	Consumption	W	27	27	27	27
	Operating Current (A)		0.12	0.12	0.12	0.12
Outdoor Fan	Motor		BLDC W/Propeller Fan (1)	BLDC W/Propeller Fan (1)	BLDC W/Propeller Fan (1)	BLDC W/Propeller Fan (1)
	Output	W	39	39	97.5	95
	FLA	Amps	0.17	0.17	0.37	0.50
Control			Wireless controller included (optional wired controller available)			
Optional Accessories	Condensate pump		ASP-MO-UNIV 110-250			
	Wired Controller	Standard	AQN-WRS (includes sub-PCB and MWR-WH00 wired controller)			
		Premium	AQN-WRP (includes sub-PCB and MWR-WE10 wired controller)			
	Wall Bracket (for outdoor unit)		CKN-250			
	Line sets - insulated and flared, interconnect cables included		25' - ILS2506	25' - ILS2506	25' - ILS2507	25' - ILS2509
			50' - ILS5006	50' - ILS5006	50' - ILS5007	50' - ILS5009
Safety	Certification		ETL & ETLc, AHRI			
	Safety Devices		PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heater, temperature limit protection logic, compressor overload sensing			

Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.  
Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.  
Quietside and Samsung maintain a policy of ongoing development, specifications are subject to change without notice.  
Refer to [www.AHRIdirectory.org](http://www.AHRIdirectory.org) for current reference numbers.



The

# WHISPER

Samsung mini split air conditioner





# WHISPER



Available capacities 9,000 / 12,000 / 18,000 / 24,000 BTU

## Main Features

- **The Triangle**  
Ultimate cooling design
- **Smart Inverter**  
Works smart and saves energy
- **Full HD Filtration**  
Filters dust, contaminants and allergens
- **2-Step Cooling**  
Cools you fast, then comfortably
- **Single User Mode**  
Use it when you're alone
- **Triple Protector Plus**  
Reliability for your Whisper
- **Easy Filter**  
Clean and maintain your filter with ease
- **Smart Features**  
Convenient installation and maintenance

## Other Features

- Good Sleep Mode
- Auto Changeover
- Silent Mode
- Zero Standby Power
- Wired Remote Control Options

## The Triangle. Ultimate Cooling Design.



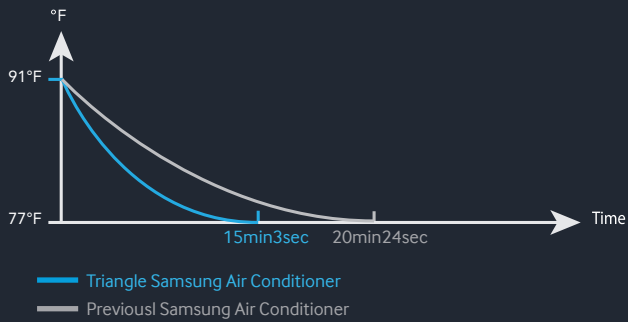
**Cools faster, farther and wider.**  
The Whisper mini split has been designed from the ground up to be outstandingly efficient. Its unique triangular design has a wider inlet, so more air can be drawn in. The improved width and angle of its outlet, extra v-blades and a bigger fan also ensure that air is cooled and delivered faster and further. So fresh cool air reaches every corner of your room without any blind spots.



\*Compared with Samsung conventional products

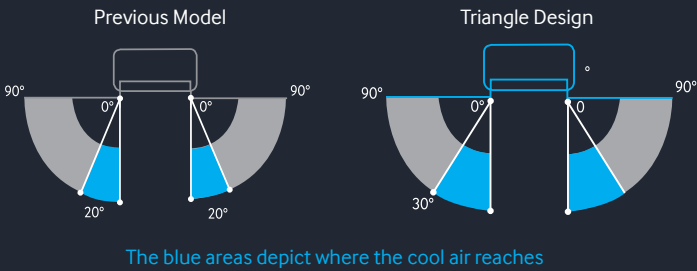
### FASTER

The Whisper cools 26% faster than previous Samsung mini split models.



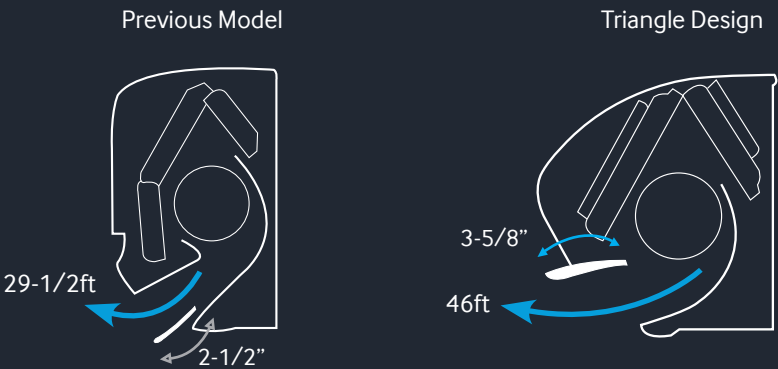
### WIDER

The improved width and angle of its outlet also ensure that air is expelled wider, minimizing blind spots.



### FARTHER

The outlet angle is different compared to conventional models, enabling a long air flow of 46ft.





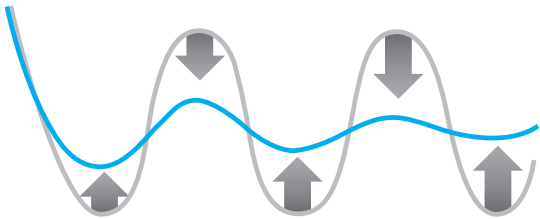
Smart Inverter



Works smart and saves energy.

The Whisper features a highly energy-efficient Smart Inverter. It can maintain the desired temperature without frequently shutting off and on, so it consumes up to 70% less energy. The Smart Inverter helps you to stay comfortable for long periods of time, while using minimal amount of energy. Low outdoor noise levels are also a benefit of the Smart Inverter feature.

Saving Energy



Digital Inverter

Non Inverter

Wasted Energy

Single User Mode



Home alone? No problem.

The Whisper's Single User mode uses less compressor capacity, reducing power consumption, while still providing a cool and comfortable environment. So you can use it when you're alone, even during a hot day, without worrying about the electricity bill. And its reduced energy consumption also helps preserve the environment.

2-Step Cooling



Cools you fast, then cools you comfortably.

The Whisper begins cooling the air fast using its Fast Cool mode, then it automatically changes the mode to Comfort Cool to maintain the desired temperature. With this feature, you won't feel cold and won't have to keep manually changing the settings or turning the air conditioner on and off.



Triple Protector Plus



Long lasting, reliable performance.

The Whisper keeps going in the most challenging environments. Its Triple Protector Plus technology prevents the compressor and controller from being overloaded by power surges and fluctuating electrical currents. It also has an anti-corrosive coating to stop the condenser and cabinet from rusting, and its larger condenser and optimized refrigerant flow mean it can perform in the hottest of conditions.



Fin and Chassis Protector

Anti-corrosion coating



Compressor Protector

Prevents damage from low voltage



Controller Protector

Constant volt control



3-Care Filter



Keep your filter clean.

The 3-care filter of the Whisper has a special coating to prevent it from becoming contaminated with allergens, viruses, and bacteria. Together with removing dust particles from the air, this helps keep the air in your room clean and fresh.



Easy Filter



Worry free maintenance.

With the Whisper, filter maintenance is a breeze. The filter is easily removable by hand and is water washable. The filter can also be cleaned by vacuuming the top of the indoor unit.



Smart Installation



Install with confidence.

With the Whisper you can enjoy the confidence that it's perfectly installed. Smart Installation checks for common problems to make sure your Whisper will operate smoothly. In the case there is a problem with the installation of the system, the Whisper will tell the installer what the exact issue is with a series of error codes.

Control Options

3 ways to control the Whisper.



**MR-DH00**  
Standard Wireless Remote Controller

- ON/OFF Operating Mode, Fan Speed, Airflow, Temperature Setting
- Filter replacement alarm reset
- Simple schedule control
- Wide display
- Soft touch button
- Multi-channel (max 4 channels)



**MWR-WH00**  
Optional Simple Wired Remote Controller

- ON/OFF, Operating Mode, Fan Speed, Airflow, Temp Setting
- Sleep & Silent mode
- Built-in room temperature sensor
- Child lock
- Automatic stop mode
- Simple schedule control
- Different permission levels



**MWR-WE10**  
Optional Premium Wired Remote Controller

- ON/OFF, Operating Mode, Fan Speed, Airflow, Temp Setting
- Error display
- Filter replacement alarm reset
- Sleep & Silent mode
- Built-in room temperature sensor
- Child lock
- Automatic stop mode
- Wireless remote control restriction
- Clear & bright screen w/ LCD backlight
- Weekly schedule setting
- Exception date setting
- Different permission levels

Other Features

Good Sleep Mode

This feature helps you fall asleep and stay asleep, so you feel refreshed and energized when you wake up. With the Whisper's Good Sleep mode, the room temperature automatically adjusts to your body temperature so you remain comfortable all night long, and it uses less energy than normal cooling mode.

Auto Changeover

This feature automatically selects the operating mode (cool or heat) according to the temperature setting. When a desired temperature is selected to the auto mode, the Whisper heats and cools as required to maintain the set temperature.

Silence Mode

For greater comfort, Samsung has made improvements to reduce vibration and noise level coming from the Whisper indoor and outdoor units.

Zero Standby Power

The Whisper saves you money even when it's turned off. The improved control board uses miniscule amounts of energy when off, resulting in 90% more savings VS. a conventional system.

Warranty

Compressor - 7 years  
Parts - 5 years  
Limited Labor - 1 year

